

ABSTRACT OF THE DISCLOSURE

The present invention provides a biomagnetic measurement technique which can obtain a potential waveform corresponding to a ventricular muscle cell action potential in a non-invasive manner. The biomagnetic measurement apparatus including an operating circuit for magnetometer, and means collecting output data of the operating circuit for magnetometer, has means calculating a current vector at time t , means calculating absolute value I_{xy} of the current vector, means calculating potential waveform $V(t)$ in time corresponding to depolarization of a heart from the absolute value of the current vector, and means calculating potential waveform $V(t)$ in a refractory period of the heart to a period corresponding to repolarization from the absolute value of the current vector.